

PRO-WATCH® NVR

64/128/256-Channel Enterprise NVR



ONVIF® | S | G | 5 YEAR WARRANTY

Pro-Watch NVR is a flexible, scalable and open IP video surveillance system, including the Pro-Watch NVR HE with 64 to 256 channels as well as a software based solution.

Supporting Honeywell's high definition (HD) cameras and broad integration of third party IP cameras, encoders and network I/O modules, the Pro-Watch NVR family is a powerful HD IP recording and security monitoring system for a variety of applications.

OPEN – BROAD DEVICE INTEGRATIONS

Integrates to full line of Honeywell IP cameras and encoders. Support for ONVIF Profile S and Profile G, PSIA, real time streaming protocol (RTSP) and multicast standards and Honeywell ISOM secure configuration protocol (supported by specific equiP® camera models). Native device integrations supporting equiP® and Performance Series cameras.

Native device integration supporting Honeywell's 30/35/60/70 Series cameras featuring: H.265 smart video compression codec and encrypted video stream with TLS 1.2.

SCALABLE INTEGRATED SECURITY SOLUTION

Multiple Pro-Watch NVRs can be deployed for system expansion using a distributed architecture and are integrated with the Pro-Watch VMS enterprise video management system with Integrated Security Suite.

Pro-Watch NVR products contain no content or material from any companies or their subsidiaries prohibited under US National Defense Authorization Act (NDAA) Section 889 and can be used as part of video systems which comply with NDAA Section 889.

EFFICIENT MONITORING AND INVESTIGATION

Pro-Watch NVRs provide quick camera drag-and-drop connection for seamless live view experience. NVIDIA and Intel GPU based rendering support for H.264 and H.265 decoding up to 60 frames per second (1080p camera) with smooth display on 4K monitors reduces the number of workstations needed for monitoring large sites with 30+ cameras.

The number of false alarms are reduced with SMART VMD, object based motion detection analytics.

They include smooth reverse playback for real-time investigation of incidents and SMART Motion search for fast and efficient forensic search and investigation of objects/motion on recorded video using Client PC without impacting the NVR Server load.

The clips are exported in an Encrypted proprietary format (*.smpvc) with user password protection.

EASY TO INSTALL AND USE - TURNKEY SOLUTION

- Pre-installed with all required software and pre-licensed for 64, 128 or 256 channels with no extra channel license costs.
- Easy 3-Click* wizard to live video for auto configuration - quick and efficient IP system install.
- Supports simultaneous recording, live monitoring, search and system management for up to 256 IP cameras including high definition formats with easy to use clients.
- Easy to use desktop clients, HTML5 web client and mobile apps.
- Edge analytics integration support for compatible cameras.
- Learn One, Know Them All -Common feature-rich user experience across the Pro-Watch NVR Family and Pro-Watch VMS helps reduce training time and cost.

*With default settings and in a local area network for specific models

PRO-WATCH® NVR

64/128/256-Channel Enterprise Network Video Recorder (NVR)

OPERATIONAL	
PRO-WATCH NVR SOFTWARE - VERSION 7.5 OR ABOVE	
DATABASE	Microsoft® SQL Server® 2019 Express
OPERATING SYSTEM	Windows 10 IoT, Server 2019 optional
COMPRESSIONS SUPPORTED	MJPEG, MPEG-4, H.264, H.265 (including smart codec for specific cameras)
SUPPORTED HONEYWELL IP CAMERAS AND ENCODERS	Supports Honeywell's Performance IP, eQIP® Series, 30 / 35 / 60 / 70 Series IP cameras.
SUPPORTED THIRD PARTY IP CAMERAS AND ENCODERS	Refer to the Pro-Watch® NVR Compatibility on our website for a comprehensive list of compatible products to which this device is integrated.
AUDIO SUPPORT	2-way audio support for compatible cameras.
MAXIMUM NUMBER OF DESKTOP CLIENT CONNECTIONS	Desktop Client - 38 per unit from 19 remote workstations + 1 local on NVR
SALVO LAYOUTS	Desktop Client - Full, 2x2, 1x5, 3x3, 2x8, 1x12, 4x4. Web Client - 2x2, 1x1, 1x2, 1x3. Mobile app (Phone) - 2x2, 2x4, 1x2, 1x1. Mobile app (Tablet) - 3x3, 2x2, 1x1.
PICTURE CONTROLS PER CAMERA	Sharpness, blur, brightness, contrast, hue, saturation, maintain aspect ratio, stretched, original size and picture mirror
OSD	Concealed text option
PLAYBACK CONTROLS PER CAMERA - DESKTOP CLIENT	FWD/REV Play x (1, 2, 4, 8, 16) Slow FWD/REV Play x (1/2, 1/4, 1/8)
SEARCH TYPES	Time/date timeline, time jump FWD/REV, bookmarks, calendar, preview, film strip, event search and SMART Motion Search
RECORDING SCHEDULE	Continuous and event based with H/M/D and holiday and exception days
RECORDING METHODS PER CAMERA	Continuous, event based and user activated
LIVE SETTINGS PER CAMERA	Compression format, resolution and frame rate
RECORD SETTINGS PER CAMERA	Same as live or can be a separate stream configuration.
CLIP FORMAT	Honeywell MPVC and encrypted SMPVC playable with standalone Pro-Watch Clip Player for faster and secure exports. WMV with digital certificate for authentication playable with Windows media player. ASF for faster exporting of longer than an hour backup clips in native compression format.
VIDEO CLIP AUTHENTICATION	Digital signature, verification tool provided
MOTION DETECTION LOCATION	Camera based for supported models or Server based (SMART VMD) for all models (except 360 fisheye /panomorph views)
EVENT RECORDING	Pre and post duration setting
OPERATOR REPORTING	Per user, configurator, session and viewer
EVENT REPORT	Per camera or recorder events
OPERATORS	1024

OPERATIONAL	
PRO-WATCH NVR HARDWARE	
MODEL	HE (24-bay unit)
PROCESSOR	Dual Intel® Xeon® Silver 4210, 2.2 GHz
MEMORY	64GB
POWER SUPPLY	1+1 750W hot plug redundant 80+ Platinum
OS DRIVE	2x 240 GB M.2 SSD, RAID 1
STORAGE CAPACITIES	Up to 384 TB raw storage
STORAGE HARD DRIVE OPTIONS	24 hot-swappable SATA hard drive options
NETWORK	2x 10GbE SFP+ and 2 x 1GbE
CHASSIS WITH LOCKING BEZEL	2U, including rack mount kit and locking bezel
RAID CARD	Hardware RAID, Data RAID Level: 0, 1, 5, 6, 10
REAR/FRONT PANEL CONNECTIONS	
USB	Front: 1x USB 3.0, 1 x micro-usb, dedicated IDRAC Direct USB. Rear: 2x USB 3.0
NETWORK	2 x RJ45, 2 x SFP+
MONITOR OUTPUT	VGA on rear
ELECTRICAL	
INPUT VOLTAGE	110/220 VAC 50/60 Hz autosensing
MECHANICAL	
CONSTRUCTION	Chassis: Grey matte paint
DIMENSIONS (W X H X D)	17.6 x 3.42 x 31.9 in 448 x 86.8 x 810 mm
WEIGHT	95.24lbs (43.2kg) fully populated
ENVIRONMENTAL	
TEMPERATURE OPERATING	10°C to 30°C (50°F to 86°F)
RELATIVE HUMIDITY	10-80% non-condensing
REGULATORY	UL, CE, FCC, NDA Section 889, ROHS certificate for UAE
OTHER	
COUNTRY OF ORIGIN	Mexico for North America and Middle East, Non-China for all regions
WARRANTY	5-Year Warranty, Next Business Day on-site support (at least for North America)

RECORDING AND MONITORING PERFORMANCE

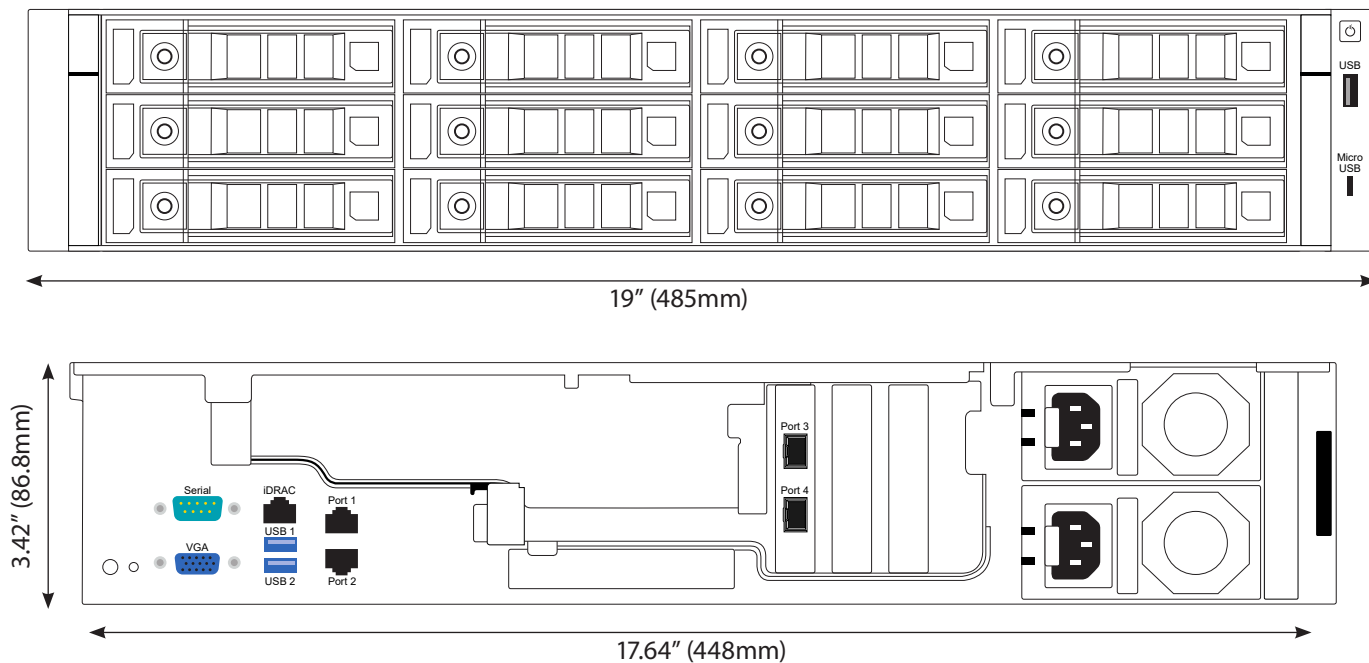
7680 fps @ 1080p (4.0 Mbps bitrate) HD. 1-way audio for up to 256 IP channels.
Network bandwidth/throughput : 1800 Mbps.
Rendering performance using CPU of up to 4 1080p HD @ 30 fps/120 fps on local client.

MAX VIDEO STREAMS SUPPORT	Desktop Client: Live - 512 streams, Playback/Video retrieval sessions - 64, Sync playback - 9 streams. 512 live streams limit excludes 1 stream used per camera if Smart VMD is enabled. Maximum live streams per camera is 15 with Smart VMD enabled. Mobile App: 16 streams of 1080p HD @ 5 fps each. Note: During archival operations, maximum no of playback streams recommended from Desktop Client and Web Client is 16 streams.
SERVER BASED VMD (SMART VMD) PERFORMANCE - CHANNELS SUPPORTED	Channels at max fps: 64 ch at 1920 fps @ 4CIF/VGA or 64 ch at 1920 fps @ 720p or 64 ch at 1920 fps @ 1080p or total 128 Megapixel. All Channels at fps: 64 ch at 1920 fps @ 4CIF/VGA or 1920 fps @ 720p or 1920 fps @ 1080p or total 128 Megapixel. Smart VMD is not recommended when more than 64 cameras are connected to the NVR.
ARCHIVAL PERFORMANCE	64 channels @ 2.5 Mbps / 160 Mbps total archival bandwidth while recording 128 channels @ 2.5 Mbps / 320 Mbps with total bandwidth/throughput 700 Mbps
MULTI-STREAM PERFORMANCE	Support for maximum 512 streams. Support for configuring 1 preferred stream for continuous recording and 1 preferred stream for live video / motion based recording per camera.

PRO-WATCH® NVR

64/128/256-Channel Enterprise Network Video Recorder (NVR)

SPECIFICATIONS (24-bay unit)



PRO-WATCH® NVR

64/128/256-Channel Enterprise Network Video Recorder (NVR)

ORDERING



PRO-WATCH NVR HE		
PWNHE64C240T12	64CH, 20X12 TB SATA HARD DRIVE	196.36 TB RAID 6, 207.27 TB RAID 5
PWNHE128C240T12	128CH, 20X12 TB SATA HARD DRIVE	
PWNHE256C240T12	256CH, 20X12 TB SATA HARD DRIVE	240 TB RAID 6, 250.91 TB RAID 5
PWNHE64C288T12	64CH, 24X12 TB SATA HARD DRIVE	
PWNHE128C288T12	128CH, 24X12 TB SATA HARD DRIVE	320 TB RAID 6, 334.55 TB RAID 5
PWNHE256C288T12	256CH, 24X12 TB SATA HARD DRIVE	
PWNHE64C384T16	64CH, 24X16 TB SATA HARD DRIVE	
PWNHE128C384T16	128CH, 24X16 TB SATA HARD DRIVE	
PWNHE256C384T16	256CH, 24X16 TB SATA HARD DRIVE	

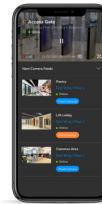
Note:
All PW NVR's come with RAID 5 per default; if RAID 6 is required then this needs to be specified in the order

UPGRADE KITS FOR PRO-WATCH NVR	
PWNPECHD8T	8TB SATA Upgrade Kit
PWNPECHD12T	12TB SATA Upgrade Kit
PWNPECHD16T	16TB SATA Upgrade Kit
PWNPECS2K19	Windows 10 to Windows Server 2019 OS Factory Upgrade
PWNPECHD8TEUP	Encryption Support Factory Upgrade per 8TB HDD
PWNPECHD12TEUP	Encryption Support Factory Upgrade per 12TB HDD

CHANNEL UPGRADE LICENSES FOR PRO-WATCH NVR	
PWN01UP	1 Channel License Upgrade to add support for up to 256 Ch / NVR
PWN04UP	4 Channel License Upgrade to add support for up to 256 Ch / NVR
PWN08UP	8 Channel License Upgrade to add support for up to 256 Ch / NVR
PWN16UP	16 Channel License Upgrade to add support for up to 256 Ch / NVR
PWN32UP	32 Channel License Upgrade to add support for up to 256 Ch / NVR
PWN64UP	64 Channel License Upgrade to add support for up to 256 Ch / NVR

SOFTWARE MAINTENANCE & UPGRADES AGREEMENTS	
SSAPWNVRC	Annual Software Support Agreement – Pro-Watch NVR System with VMS support included, Per Channel
SSA24PWNVRC	Annual 24/7 Software Support Agreement – Pro-Watch NVR System with VMS support included, Per Channel
SSAEUPWNVRC	Annual End User 24/7 Software Support Agreement – Pro-Watch NVR System with VMS support included, Per Channel

DOWNLOAD MOBILE APP

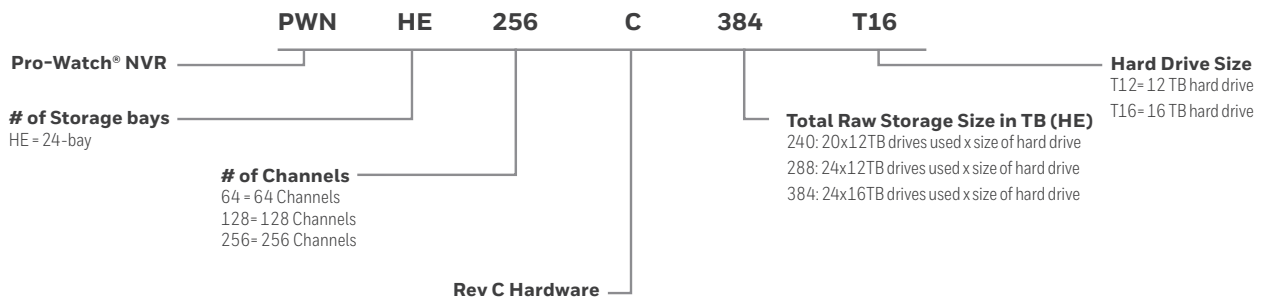


HONEYWELL SECURE

View live and recorded video, manage alarms and overall site security.



PRO-WATCH NVR – PART NUMBER LOOKUP



For more information
buildings.honeywell.com/security

Honeywell Commercial Security
715 Peachtree St. NE
Atlanta, GA 30308
1.800.323.4576
www.honeywell.com

ONVIF and the ONVIF logo are trademarks of ONVIF Inc. Honeywell reserves the right, without notification, to make changes in product design or specifications.

HSV-PWNVR-07-US(0822)DS-ZD
© 2022 Honeywell International Inc.

